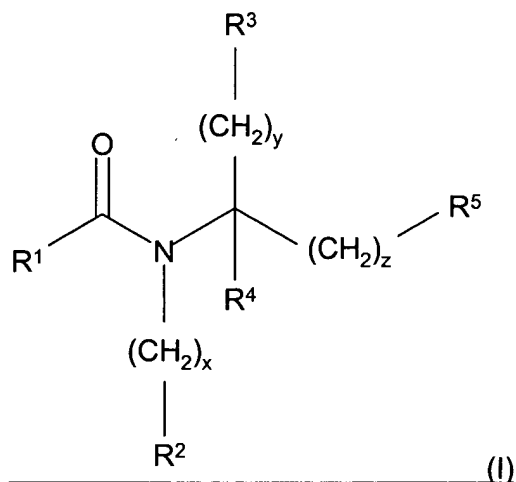


Claims

IN THE CLAIMS

1. (canceled).
2. (currently amended) A compound of formula (I)



wherein:

~~A compound according to claim 1 wherein~~

R<sup>1</sup> is selected from:

- a) phenyl, which is optionally substituted by 1-3 groups each independently selected from C<sub>1</sub>-C<sub>6</sub> alkyl, CF<sub>3</sub>, halo, CN, NR<sup>7</sup>R<sup>8</sup>, SO<sub>2</sub>R<sup>6</sup> and OC<sub>1</sub>-C<sub>6</sub> alkyl, and
- b) Aromatic Heterocycle, wherein said Aromatic Heterocycle is selected from pyridyl, pyrazinyl, pyrimidinyl, quinolinyl, quinoxaliny, isoxazolyl and pyrazolyl, each aromatic heterocycle optionally substituted by 1-3 groups each independently selected from C<sub>1</sub>-C<sub>6</sub> alkyl, SR<sup>6</sup>, SO<sub>2</sub>R<sup>6</sup>, NH<sub>2</sub>, CF<sub>3</sub>, halo, OH, OC<sub>1</sub>-C<sub>6</sub> alkyl, NR<sup>7</sup>R<sup>8</sup> wherein R<sup>8</sup> may be optionally substituted by NH<sub>2</sub>, phenyl or Heterocycle, and OPh wherein Ph may be optionally substituted by 1-3 groups each independently selected from halo and C<sub>1</sub>-C<sub>6</sub> alkyl;

R<sup>2</sup> is selected from:

- a) phenyl, which is optionally substituted by methyl, fluoro, chloro, methoxy, CF<sub>3</sub> or SO<sub>2</sub>CH<sub>3</sub> ~~C<sub>4</sub>-C<sub>6</sub> alkyl, halo, OC<sub>4</sub>-C<sub>6</sub> alkyl, OCF<sub>3</sub>, NR<sup>7</sup>R<sup>8</sup>, CF<sub>3</sub> or SO<sub>2</sub>R<sup>6</sup>,~~

- b) ~~OPh, which is optionally substituted by C<sub>1</sub>-C<sub>6</sub> alkyl or halo,~~  
e) ~~cyclopropyl or 1- or 2-indanyl,~~  
d) pyrazolyl, which is optionally substituted by methyl R<sup>6</sup>, and  
e) ~~R<sup>6</sup>,~~  
f)c) C(O)N(CH<sub>3</sub>)<sub>2</sub>, and  
g) ~~a 5-6 membered saturated ring containing 1 nitrogen atom, said ring being~~  
~~substituted by C(O)R<sup>6</sup>;~~  
R<sup>3</sup> is selected from:  
a) phenyl, said phenyl being optionally fused to Heterocycle and said phenyl or  
said fused phenyl being optionally substituted by 1-3 groups each  
independently selected from C<sub>1</sub>-C<sub>6</sub> alkyl, halo, CN and OC<sub>1</sub>-C<sub>6</sub> alkyl,  
b) R<sup>6</sup>,  
c) cyclopropyl, cyclobutyl, cyclopentyl or cyclohexyl, which is optionally  
substituted by C<sub>1</sub>-C<sub>6</sub> alkyl; and  
d) Aromatic Heterocycle, wherein said Aromatic Heterocycle may be defined as  
a 5-6 membered aromatic heterocycle containing 1 or 2 nitrogen atoms, said  
ring optionally fused with a phenyl or a 3-8 membered cycloalkyl group.  
R<sup>4</sup> is H;  
R<sup>5</sup> is ~~selected from: CONH<sub>2</sub>, CONHR<sup>6</sup>, CONR<sup>6</sup>R<sup>6</sup> and R<sup>6</sup>;~~  
R<sup>6</sup> is methyl;  
R<sup>7</sup> is hydrogen or C<sub>1</sub>-C<sub>6</sub> alkyl;  
R<sup>8</sup> is C<sub>1</sub>-C<sub>6</sub> alkyl;

or NR<sup>7</sup>R<sup>8</sup> forms a monocyclic saturated ring system containing between 3 and 7  
ring atoms;

x is 1;

y is 0; and

z is 0 or 1

wherein:

Aromatic Heterocycle may be defined as a 5-6 membered aromatic heterocycle  
containing 1-4 heteroatoms each independently selected from N, O and S, said ring  
optionally fused with a phenyl or a 3-8 membered cycloalkyl group;

Heterocycle is a 5-8 membered saturated or partially saturated ring containing 1-3 heteroatoms each independently selected from N, O and S, said ring optionally fused with phenyl;

a tautomer thereof or a pharmaceutically acceptable salt, solvate or polymorph of said compound or tautomer.

3. (original) A compound according to claim 2 wherein R<sup>1</sup> is selected from:
- a) phenyl, which is optionally substituted by 1-3 groups each independently selected from C<sub>1</sub>-C<sub>6</sub> alkyl, CF<sub>3</sub>, halo, CN, NR<sup>7</sup>R<sup>8</sup>, SO<sub>2</sub>R<sup>6</sup> and OC<sub>1</sub>-C<sub>6</sub> alkyl, and
  - b) Aromatic Heterocycle, wherein said Aromatic Heterocycle is selected from:
    - i) pyridyl, which is optionally substituted by 1-3 groups each independently selected from C<sub>1</sub>-C<sub>6</sub> alkyl, SO<sub>2</sub>R<sup>6</sup>, NH<sub>2</sub>, CF<sub>3</sub>, CN, halo, OH, OC<sub>1</sub>-C<sub>6</sub> alkyl, NR<sup>7</sup>R<sup>8</sup> wherein R<sup>8</sup> may be optionally substituted by NH<sub>2</sub>, phenyl or Heterocycle, and OPh wherein Ph may be optionally substituted by 1-3 groups each independently selected from halo and C<sub>1</sub>-C<sub>6</sub> alkyl;
    - ii) pyrimidinyl, which is optionally substituted by 1-3 groups each independently selected from C<sub>1</sub>-C<sub>6</sub> alkyl, SO<sub>2</sub>R<sup>6</sup>, NH<sub>2</sub>, CF<sub>3</sub>, CN, halo, OH, OC<sub>1</sub>-C<sub>6</sub> alkyl, NR<sup>7</sup>R<sup>8</sup> wherein R<sup>8</sup> may be optionally substituted by NH<sub>2</sub>, phenyl or Heterocycle, and OPh wherein Ph may be optionally substituted by 1-3 groups each independently selected from halo and C<sub>1</sub>-C<sub>6</sub> alkyl;
    - iii) pyrazinyl, which is optionally substituted by 1-3 groups each independently selected from C<sub>1</sub>-C<sub>6</sub> alkyl, NH<sub>2</sub>, SR<sup>6</sup> and halo;
    - iv) quinolinyl;
    - v) quinoxalinyl, which is optionally substituted by OH;
    - vi) isoxazolyl, which is optionally substituted by 1-3 groups each independently selected from: C<sub>1</sub>-C<sub>6</sub> alkyl; and
    - vii) pyrazole;

R<sup>2</sup> is selected from:

- a) phenyl, which is optionally substituted by methyl, halo, methoxy, CF<sub>3</sub> or SO<sub>2</sub>CH<sub>3</sub>,
- b) cyclopropyl or 1- or 2-indanyl,
- c) pyrazolyl, which is optionally substituted by methyl,
- d) C(O)N(CH<sub>3</sub>)<sub>2</sub>, and
- e) piperidinyl substituted by C(O)R<sup>6</sup>.

R<sup>3</sup> is selected from:

- a) phenyl, said phenyl being optionally fused to 1,4-dioxan and said phenyl or said fused phenyl being optionally substituted by 1-3 groups each independently selected from C<sub>1</sub>-C<sub>6</sub> alkyl, halo, CN and OC<sub>1</sub>-C<sub>6</sub> alkyl;
- b) R<sup>6</sup>,
- c) cyclopropyl, which is optionally substituted by C<sub>1</sub>-C<sub>6</sub> alkyl; and
- d) Aromatic Heterocycle, wherein said Aromatic Heterocycle is selected from pyrazolyl or pyridyl, both optionally substituted by C<sub>1</sub>-C<sub>6</sub> alkyl;

R<sup>5</sup> is CONH<sub>2</sub> or CH<sub>3</sub>; and

z is 0.

4. (original) A compound according to any one of claims ~~1 to 2~~ 2 or 3 wherein R<sup>1</sup> is phenyl, 2- or 3-pyridyl or 2,4-pyrimidinyl, said moieties being optionally substituted by 1-3 groups each independently selected from C<sub>1</sub>-C<sub>6</sub> alkyl, halo, OC<sub>1</sub>-C<sub>6</sub> alkyl, CN, SO<sub>2</sub>R<sup>6</sup>, NHR<sub>7</sub>, NHCH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub> and CF<sub>3</sub>;

5. (original) A compound according to claim 4 wherein R<sup>1</sup> is phenyl, 2- or 3-pyridyl or 2,4-pyrimidinyl, said moieties being optionally substituted by 1-3 groups each independently selected from methyl, fluoro, chloro, methoxy, ethoxy, n-propoxy, CN, SO<sub>2</sub>CH<sub>3</sub>, NH<sub>2</sub>, NHCH<sub>3</sub>, NHCH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>, and CF<sub>3</sub>.

6. (canceled)

7. (currently amended) A compound according to claim 56 wherein R<sup>2</sup> is phenyl, *para*-fluorophenyl, *para*-chlorophenyl, *para*-methylphenyl, 2,5-dimethylphenyl, *o*-methylphenyl and *para*-methoxyphenyl.

8. (previously presented) A compound according to claim 7 wherein R<sup>3</sup> is selected from:

- a) phenyl, said phenyl being optionally fused to 1,4-dioxan and said phenyl or said fused phenyl being optionally substituted by 1-2 groups each independently selected from methyl, methoxy, ethoxy, fluoro, chloro and CN;
- b) isopropyl;
- c) cyclopropyl; and
- d) pyrazolyl and pyridyl, both optionally substituted by methyl.

9. (original) A compound according to claim 8 wherein R<sup>3</sup> is 3-methoxyphenyl or 1,4-benzodioxanyl.

10. (previously presented) A compound according to claim 9 wherein R<sup>5</sup> is CONH<sub>2</sub>.

11. (currently amended) A compound according to claim 42 selected from:  
2-Amino-*N*-[2-amino-1-(2-methylphenyl)-2-oxoethyl]-*N*-(4-chlorobenzyl)nicotinamide,

*N*-[2-Amino-1-(3-methoxyphenyl)-2-oxoethyl]-4-cyano-*N*-(4-methylbenzyl)benzamide,

*N*-[3-Amino-1-(3-methoxyphenyl)-3-oxopropyl]-4-methyl-*N*-(4-methylbenzyl)nicotinamide,

2-Amino-*N*-[(1*S*)-3-amino-3-oxo-1-phenylpropyl]-*N*-(4-methylbenzyl)nicotinamide,

5-Chloro-2-methylthio-*N*-[2-amino-1-{1,4-benzodioxan-6-yl}-2-oxoethyl]-*N*-(4-methylbenzyl)pyrimidine-4-carboxamide,

5-Chloro-2-amino-*N*-[2-amino-1-{1,4-benzodioxan-6-yl}-2-oxoethyl]-*N*-(4-methylbenzyl)pyrimidine-4-carboxamide, and

2-Amino-N-[carbamoyl-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-methyl]-4,6-dimethyl-N-(4-methyl-benzyl)-nicotinamide;  
and tautomers thereof and pharmaceutically acceptable salts, solvates and polymorphs of said compound or tautomer.

12. (currently amended) A pharmaceutical composition comprising a compound of claim 4 2, or pharmaceutically acceptable salts, solvates or polymorphs thereof, and a pharmaceutically acceptable diluent or carrier.

13. (previously canceled)

14. (currently amended) A method of treatment of a disorder or condition where inhibition of Oxytocin is known, or can be shown, to produce a beneficial effect, in a mammal, comprising administering to said mammal a therapeutically effective amount of a compound of claim 4 2.

15. (previously canceled)

16. (currently amended) A method according to claim 14 wherein the disorder or condition is selected from sexual dysfunction (including premature ejaculation), preterm labour, complications in labour, appetite and feeding disorders, obesity, benign prostatic hyperplasia, premature birth, dysmenorrhoea, congestive heart failure, arterial hypertension, liver cirrhosis, nephrotic hypertension, ocular hypertension, obsessive compulsive disorder and neuropsychiatric disorders.

17. (previously presented) A method according to claim 16, wherein the disorder or condition is premature ejaculation.